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CLAIMS

I claim:

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1. An alert and tracking assembly for monitoring the position of a transmitter and alerting a user when said transmitter is located beyond a certain distance from said user, said alert and tracking assembly comprising:
a receiver having a compact portable housing, a front and a back, a means to process information, a means to input information into said processing means, a means to output information from said processing means to said user, a scanner connected to said processing means, and a power source; said transmitter having a continuously generated radio signal transmitted at a predetermined frequency and at a predetermined strength; and, a means to secure said transmitter whereby, said receiver displays the relative location of said transmitter at both short and long ranges defined by the distance between said transmitter and said receiver.
2. The tracking assembly of claim 1 further comprising:
said input means having keys upon said front corresponding to the alphabet and numerals; buttons upon said front to scroll through said output means, to choose modes of operation for said processing means, and to activate the search modes of said scanner; and,
a removable cover to prevent inadvertent striking of said keys.
3. The tracking assembly of claim 1 wherein said scanner receives the signal directly from said transmitter at short range, and receives the signal when relayed by an earth orbiting satellite from said transmitter at long range.
4. The tracking assembly of claim 1 further comprising:
said processing means having a microprocessor that accepts information from said input means and said scanner, processes the information, and displays the information via said output means.
5. The tracking assembly of claim 4 wherein said microprocessor stores identifying information about multiple transmitters, compares a signal with the identifying information to ascertain said transmitter selected by said input means, determines

- 360 direction to said transmitter, and measures the strength of said signal.
6. The tracking assembly of claim 5 further comprising:
said output means having upon said front,
a display for presenting information to the user from said microprocessor,
an alarm light controlled by said microprocessor that illuminates when the
365 strength of said signal falls below a predetermined threshold value,
an homing light controlled by said microprocessor that intermittently
illuminates and increases illumination in the direction and the
proximity of said transmitter,
and having within said housing,
370 a transducer controlled by said microprocessor that sounds constantly
when the strength of said signal falls below a predetermined
threshold value and sounds intermittently and more regularly in the
direction and the proximity of said transmitter,
an actuator that vibrates said housing in cooperation with said alarm light,
375 and
a port.
7. The tracking assembly of claim 6 wherein said port transfers information from a
first receiver to a second receiver.
8. The tracking assembly of claim 7 wherein said port connects to a cable.
- 380 9. The tracking assembly of claim 3 wherein said transmitter has a unique code
encoded within said signal.
10. The tracking assembly of claim 9 further comprising:
said securing means having a waterproof pouch attached by an adhesive to an
object to be located and said transmitter fits within said pouch.
- 385 11. A parental alert and child tracking assembly, comprising:
a receiver having a compact portable housing, a front and a back, a means to
process information, a means to input information into said processing
means, a means to output information from said processing means to a
user, a scanner connected to said processing means, and a power source;

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and,

a transmitter having a radio signal transmitted at a predetermined frequency and at
a predetermined strength and a means to secure said transmitter,
whereby, upon said transmitter exceeding a certain distance from said receiver,
said assembly displays the location of said transmitter relative to said
receiver at both short and long ranges.

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12. The tracking assembly of claim 11 further comprising:

said input means having a stylus of slender cylindrical shape, an entry screen
suitable for reading strokes of said stylus as letters and numerals, and as
selections of operating modes of said receiver, and an on/off button to
control power to said receiver.

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13. The tracking assembly of claim 11 further comprising:

said processing means having a microprocessor that accepts information from said
entry screen and said scanner, processes the information, and displays
information via said output means.

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14. The tracking assembly of claim 13 wherein said microprocessor stores identifying
information about multiple transmitters, compares said signal with the identifying
information to ascertain said transmitter of interest selected by the input means,
determines direction to said transmitter, and measures the strength of said signal.

15. The tracking assembly of claim 14 further comprising said output means having
upon said front,

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a display for presenting information to the user from said microprocessor,
an alarm light controlled by said microprocessor that illuminates when the
strength of said signal falls below a predetermined threshold value,
an homing light controlled by said microprocessor that intermittently
illuminates and increases illumination in the direction and the
proximity of said transmitter,

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and having within said housing,

a transducer controlled by said microprocessor that sounds constantly
when the strength of said signal falls below a predetermined

420 threshold value and sounds intermittently and more regularly in the
direction and the proximity of said transmitter,
an actuator that vibrates said housing in cooperation with said alarm light,
and
a port that exchanges information from a first receiver to a second receiver.

425 16. The tracking assembly of claim 15 wherein said port accepts a cable.

17. The tracking assembly of claim 11 wherein said scanner receives the signal directly
from said transmitter at short range, and when relayed by an earth orbiting satellite
from said transmitter at long range.

430 18. The tracking assembly of claim 17 said transmitter has a unique code encoded
within said signal.

19. The tracking assembly of claim 17 further comprising:
said securing means having a waterproof pouch attached by an adhesive and said
transmitter fits within said pouch, and,
a removable cover upon said front to prevent inadvertent striking of said display
435 and said entry screen.

20. A method of tracking one or more objects, the steps comprising:
inserting a transmitter into a pouch; and,
placing said pouch upon said object; and,
entering information about said object into a receiver; and,
440 activating a receiver to receive a unique signal generated by said transmitter; and,
selecting the mode of operation of said receiver wherein said receiver tracks the
signals from one or more objects; and,
displaying information about the identity and location of said object to the user of
said receiver at both short and long ranges between said transmitter and
445 said receiver.